NSWC REPEAT CLASSIC TABULAR ANALYSIS BRIEF 2003

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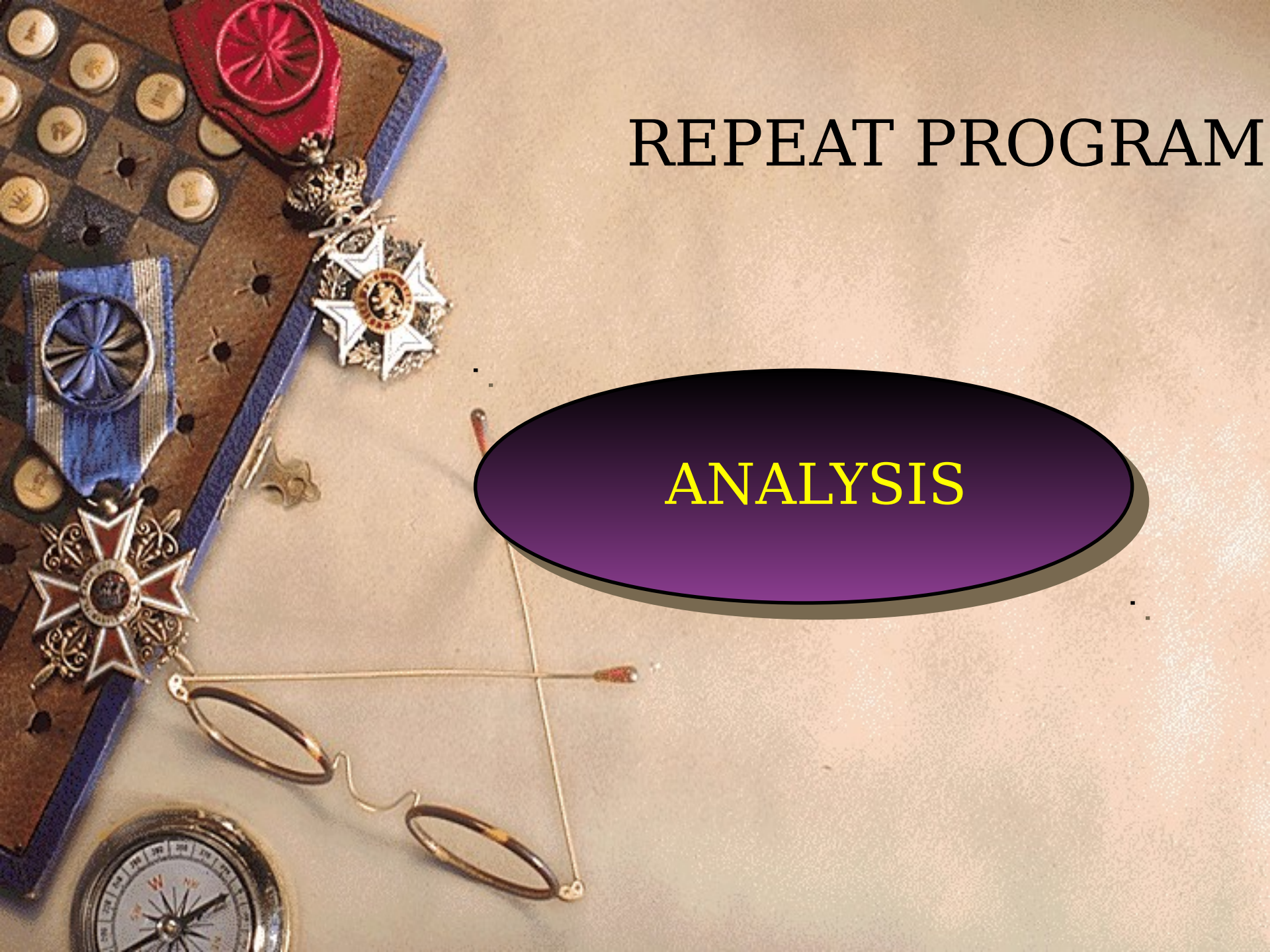
REPEAT PROGRAM



ANALYSIS REQUIREMENT

- OPERATOR ORIENTED PROGRAMS FOR PREPARATIONS OF GRAPHS, TABLES AND GEOGRAPHIC PRESENTATIONS
  - TIMELINESS,COMPLETENESS
  - SYSTEM LOADING AND CIRCUIT UTILIZATION
  - POSITIONAL ACCURACY VS GROUND TRUTH
  - GEOGRAPHICAL SITUATION DISPLAYS

ANALYSIS PROGRAMS

- MESSAGE COMPARE
  - COMPARES A BASE RDB AGAINST UP TO NINE RDB'S FOR TOR AND TIMELATE FACTOR
- CONTACT COMPARE
  - COMPARES CONTACT REPORTS FOUND IN FILE AGAINST REPORTS FOUND IN UP TO 10 FILES
- REPORT
  - PROVIDES LISTING AND TIMELINESS OF CONTACT REPORTS WITHIN A FILE.
- HISTORY
  - PROVIDES A LISTING OF ALL THE TRACKS NUMBERS WITHIN A RDB

ANALYSIS PROGRAMS CONT

- ELINT REPORT
  - PROVIDES LISTING AND TIMELINESS ANALYSIS OF CONTACT REPORTS CONTAINING ELINT DATA
- SPECIAL REPORT
  - CALCULATES TIMELINESS FOR EACH INDIVIDUAL ELINT NOTATION FOUND IN AN RDB AND CREATES A HISTORICAL AND TIMELINE FILE
- STATS
  - REPORTS ON MESSAGE COUNT AND TOTAL CONTACT REPORTS IN A FILE
  - COUNTS OCCURRENCES OF THE FOLLOWING LINE TYPES: NARR/, ACK, PAIR, DEL, DPOS, MRG

ANALYSIS PROGRAMS CONT

- TTYPARSE
  - PROVIDES STATISTICAL INFORMATION ON NET CHARACTERISTICS PROVIDED VIA THE TTY PORT. INFORMATION INCLUDES:
    - NUMBER OF TIMES THE NET WENT DOWN
    - TOTAL NET DOWN TIME
    - NUMBER OF MISSED MESSAGES BY TRANSMITTING SID
    - NUMBER OF SCHEDULED BROADCASTS
    - NONADDEE MESSAGES
    - DUPLICATE MESSAGES
    - NUMBER OF MESSAGES TRANSFERRED TO THE TDP
- MESSAGE ANALYSIS
  - QUICK STATISTICS AND BAR GRAPHS ON MESSAGES RECEIVED

ANALYSIS PROGRAMS CONT

- **MSGCOMP**
- CONTCOMP
- REPORT
- HISTORY
- ELNTRPT
- SPECRPT
- STATS
- TTYPARSE
- MSGANAL

MSG COMPARE EXE

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG COMPARE.lnk

Enter base file:
C:\PROGRA~1\REPEAT\CLASSIC*.RDB
F1=HELP ESC=NoValue

MSGCOMP - Version 2003
* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The Message Compare (MSGCOMP) program compares a base file against up to nine comparison files for messages received and timelate factor. The input files are REPEAT RDB files. The results file provices timeliness statistics on the number of messages transmitted versus the number received at other nodes. The program can also be executed by entering arguments from the DOS prompt. Type 'MSGCOMP ?' for instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

MSG COMPARE RESULTS

TESTA.MSC - WordPad

File Edit View Insert Format Help

```
BASE FILE: C:\PROGRA~1\REPEAT\CLASSIC\\TESTA.RDB
1ST COMPARISON FILE: C:\PROGRA~1\REPEAT\CLASSIC\\TESTA.RDB    TIME BIAS: 10
SORT CRITERIA: TOR

  SER #     DTG     MSG TYPE      ORIGINATOR     TESTA      TESTA
   9883   292237Z   02/GOLD       COMCRUDESGRU   292239Z    292249Z
   9898   292322Z   02/GOLD       COMCRUDESGRU   292326Z    292336Z
   9902   292330Z   02/GOLD       COMCRUDESGRU   292331Z    292341Z
   9903   292331Z   02/GOLD       COMCRUDESGRU   292333Z    292343Z
   9904   292336Z   02/GOLD       COMCRUDESGRU   292346Z    292356Z
   9905   292342Z   02/GOLD       COMCRUDESGRU   292346Z    292356Z
   9911   292347Z   02/GOLD       COMCRUDESGRU   292351Z    300001Z
   9912   292353Z   02/GOLD       COMCRUDESGRU   292357Z    300007Z

-------------------------------------------------------------------
ALL MESSAGES    TOTAL SENT      333        # ADDRESSED       333
                                            # RECEIVED        333
                                            % RECEIVED      100.0%

                                                 TOTAL:       333
                                           SAMPLE SIZE:       333
                                                 EARLY:         0
                                                  LATE:         0

                                                  MEAN:    00:10:00
                                                MEDIAN:    00:10:00
                                               STD DEV:    00:00:00
```

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- **CONTCOMP**
- REPORT
- HISTORY
- ELNTRPT
- SPECRPT
- STATS
- TTYPARSE
- MSGANAL

CONTACT COMPARE EXE

C:\PROGRA~1\Repeat\Classic\contcomp.exe

Enter base file:
C:\PROGRA~1\REPEAT\CLASSIC*.RDB_
F1=HELP ESC=NoValue

CONTCOMP - Version 2003
* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

This program compares contact reports found in one file against contact reports found in up to 10 additional files. Correct file inputs will have an extension of .RDB. Data fields used in the comparsion are Time of Event (TOE), latitude, longitude, and name. The program may also be executed from the command line. Type 'CONTCOMP ?' for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

CONTACT COMPARE RESULTS

TESTA.CMP - WordPad

File Edit View Insert Format Help

```
292347Z 313800N 1431300W 29/23:51:36 LONG BEACH   T7260        WSN5   US NAV
                         30/00:01:36 LONG BEACH   T7260        WSN5   US NAV
                         29/23:51:36 LONG BEACH   T7260        WSN5   US NAV
292350Z 321100N 1415600W 29/23:51:36 MISSOURI     T7259        LCG    US NAV
                         30/00:01:36 MISSOURI     T7259        LCG    US NAV
                         29/23:51:36 MISSOURI     T7259        LCG    US NAV
292357Z 330200N 1254700W 29/00:49:19 FREDERICK    T7428               UR NAV
                         29/00:59:19 FREDERICK    T7428               UR NAV
                         29/00:49:19 FREDERICK    T7428               UR NAV

TOTAL ENTRIES IN BASE FILE: 1126

FIRST COMPARISON FILE: C:\PROGRA~1\REPEAT\CLASSIC\TESTA.RDB

   NUMBER OF NAME CHANGES: 0
   NUMBER OF UNKNOWNS CORRELATED: 0
   NUMBER OF SENSOR CHANGES: 0

TOR TIMELINESS
   NUMBER OF TOTAL MATCHES: 1126  (100.0%)
   SAMPLE SIZE FOR ALL SENSORS:  1126
     TIME DELAY:  MEAN  00/00:10:00   MEDIAN  00/00:10:00   ST DEV  00/00:00:00

TOE TIMELINESS
   NUMBER OF TOTAL MATCHES: 1126  (100.0%)
   SAMPLE SIZE : 1110  ( 1 EARLY,  15 LATE)
     TIME DELAY:  MEAN  00/00:48:26   MEDIAN  00/00:22:36   ST DEV  00/01:14:27
```

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- **REPORT**
- HISTORY
- ELNTRPT
- SPECRPT
- STATS
- TTYPARSE
- MSGANAL

MSG REPORT EXE

C:\PROGRA~1\Repeat\Classic\report.exe

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RDB

F1=HELP ESC=NoValue

REPORT - Version 2003
* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The Report program provides a listing and timeliness analysis of contact reports. Correct file inputs will have and extension of .RDB
The REPORT program counts the number of unique track numbers, NTDS track numbers and PIF codes. Multiple files can be selected. The program may also be executed from the command line. Type 'REPORT ?' for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

MSG REPORT RESULTS

TESTA.RPT - WordPad

File Edit View Insert Format Help

```
INPUT FILENAME: C:\PROGRA~1\REPEAT\CLASSIC\TESTA.RDB
OUTPUT FILENAME: C:\PROGRA~1\REPEAT\CLASSIC\TESTA.RPT
SORT CRITERIA: TOE
NOTE: * = TOR - TOE GREATER THAN 12 HOURS.
NOTE: # = TOR EARLIER THAN TOE.
NOTE: - = DUPLICATE CONTACT REPORT.
```

CNT	NAME(* IRC)	TOE	RCVD	TRACK	ELN	LAT	LONG	FL	TYP	SENSOR
1399	REZKIY	29/2237	29/234645	T7432	C308Z	314900N	1275300W	UR	NAV	
1400	-REZKIY	29/2237	--29/234655	T7432		314900N	-1275300W	UR	NAV	
1401	ANTIETAM	29/2241	29/235136	T7105		310000N	1441900W	US	NAV	LCG
1402	GORDYY	29/2251	29/232600	T7263		293300N	1312000W	UR	NAV	
1403	ANTIETAM	29/2252	29/235750	T7105		310100N	1441500W	US	NAV	LCG
1404	JAMES R	29/2310	29/232600	T7412	O511Z	331900N	1320800W	UR	NAV	
1405	BELLEAU WOOD	29/2310	29/232600	T7387	O306B	343700N	1281000W	UR	NAV	
1406	JASON	29/2312	29/232600	T7367	O306B	283300N	1364000W	US	NAV	
1407	LONG BEACH	29/2323	29/232600	T7260		313400N	1432100W	US	NAV	WSN5
1408	TRIUMPH	29/2330	29/234645	T7117		364000N	1423200W	US	NAV	
1409	MISSOURI	29/2335	29/234645	T7259		320900N	1415900W	US	NAV	LCG
1410	N3053	29/2335	29/234655	T7040		303500N	1420700W			NTDS
1411	LV MER10	29/2339	29/235136	T7044		295200N	1423300W			SONP
1412	LOUISVILLE	29/2342	29/234655	T7228		301100N	1422200W	US	SUB	
1413	N4000	29/2343	29/234655	T7043		293400N	1432300W			NTDS
1414	LONG BEACH	29/2347	29/235136	T7260		313800N	1431300W	US	NAV	WSN5
1415	MISSOURI	29/2350	29/235136	T7259		321100N	1415600W	US	NAV	LCG
1416	FREDERICK	29/2357	#29/004919	T7428		330200N	1254700W	UR	NAV	

```
NOTE: VALUES IN BRACKETS ARE DUPLICATE CONTACT REPORTS.

SAMPLE SIZE  1393 [  284]  IGNORED    21 [    6]  EARLY     2 [    0]

INCLUDING DUPLICATE CONTACTS:          WITHOUT DUPLICATE CONTACTS: 1109
MEAN                00/00:49:52        MEAN                00/00:38:28
MEDIAN              00/00:20:06        MEDIAN              00/00:12:36
```

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- **HISTORY**
- ELNTRPT
- SPECRPT
- STATS
- TTYPARSE
- MSGANAL

MSG HISTORY EXE

C:\PROGRA~1\Repeat\Classic\histrpt.exe

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RDB

F1=HELP ESC=NoValue

HISTRPT - Version 2003
* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The History Report (HISTRPT) program provides a listing of all the tracks numbers contained within an RDB. The listing is sorted in ascending order by tracknumbers and contains:

- Track Name
- Time of First Report
- Time of Last Report
- Number of Contacts Associated with the Track Number
- Time of Track Deletion

The input files are RDB files and multiple files can be selected.
Type 'HISTRPT ?' for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

MSG HISTORY RESULTS

TESTA.RPH - WordPad

File Edit View Insert Format Help

FILE NAME: C:\PROGRA~1\REPEAT\CLASSIC\TESTA.RDB
SORT CRITERIA: NAME

COUNT	TKID	NAME	SRCE	FIRST REPORT	LAST REPORT	CT	DELETE TIME	MTKID	MERGE TIME
135	T7135	SSV 493	COMCRUDES	29/03:46:07	29/21:13:32	9			
136	T7298	STANDLEY	COMCRUDES	29/00:49:19	29/00:49:19	1	29/00:49:19		
137	T7304	STOROZHEV	COMCRUDES	29/09:04:37	29/20:29:12	9			
138	T7356	TA NAV04	COMCRUDES	29/00:49:19	29/00:49:19	1	29/00:49:19		
139	T7486	TA NAV11	COMCRUDES	29/01:34:22	29/10:56:09	2	29/14:07:31		
140	T7508	TA NAV15	COMCRUDES	29/09:25:06	29/09:25:06	1	29/11:17:37		
141	T7375	TA SUB01	COMCRUDES	29/00:38:55	29/20:52:52	10			
142	T7377	TA SUB02	COMCRUDES	29/02:19:57	29/21:43:26	9			
143	T7419	TA SUB05	COMCRUDES	29/13:25:16	29/13:25:16	1			
144	T7472	TA SUB06	COMCRUDES	29/08:15:18	29/10:28:14	4	29/11:08:09		
145	T7375	TA SUB06	COMCRUDES	29/13:10:50	29/13:10:50	1			
146	T7474	TA SUB07	COMCRUDES	29/02:19:57	29/19:44:27	6			
147	T7030	TA SUB08	COMCRUDES	29/19:31:10	29/19:31:10	1			
148	T7450	TA UNK20	COMCRUDES	29/00:49:19	29/00:49:19	1	29/00:49:19		
149	T7117	TRIUMPH	COMCRUDES	29/10:17:09	29/23:46:45	3			
150	T7018	TUG	COMCRUDES	29/18:29:21	29/18:29:21	2			
151	T7018	TUG AND 2	COMCRUDES	29/17:27:12	29/17:27:12	1			
152	T7012	UNKNOWN	COMCRUDES	29/16:05:15	29/16:05:15	3			
153	T7028	UNKNOWN	COMCRUDES	29/19:00:07	29/19:00:07	1	29/21:00:40		
154	T7033	UNKNOWN	COMCRUDES	29/20:35:29	29/20:35:29	1			
155	T7351	VARYAG	COMCRUDES	29/00:38:55	29/23:51:36	13			
156	T7277	VICTOR II	COMCRUDES	29/00:38:55	29/19:50:04	13			
157	T7013	VICTOR II	COMCRUDES	29/16:18:08	29/20:52:52	6			
158	T7399	VLIYATELN	COMCRUDES	29/02:06:38	29/20:52:52	12			
159	T7266	WADDELL	COMCRUDES	29/02:15:40	29/19:59:56	9			
160	T7451	WHISKEY	COMCRUDES	29/02:32:33	29/02:32:33	1			
161	T7207	YOUNG J	COMCRUDES	29/00:49:19	29/22:34:27	28			

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- HISTORY
- **ELNTRPT**
- SPECRPT
- STATS
- TTYPARSE
- MSGANAL

ELINT REPORT EXE

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\ELINT REPORT.lnk

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RDB

F1=HELP ESC=NoValue

ELNTRPT - Version 2003

* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The ELINT Report program provides a listing and timeliness analysis of ELINT contacts. The files used to produce the reports are obtained during by running MAKERDB or RDBSTAT and will have an extension of .RDB. The program can also be executed by entering arguments from the DOS prompt. Type 'ELNTRPT ?' from the DOS prompt for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

ELINT REPORT RESULTS

TESTA.RPE - Notepad

File Edit Format Help

CNT	NAME	TOE	TOR	LAT	LONG	ELNOT	PRI	ANGLE	SMAJ	SMIN
1	RAZUMN	29/1125	29/120020	285700N	1310700W	C308Z	9999.9990	31.0	6.0	1.0
2	REZKIY	29/2237	29/234645	314900N	1275300W	C308Z	9999.9990	85.0	11.0	4.0
3	GORDYY	28/2337	29/010047	285300N	1320800W	C308Z	9999.9990	95.0	49.0	6.0
4	GORDYY	29/0133	29/020225	285300N	1324800W	C308Z	9999.9990	64.0	11.0	1.0
5	RAZUMN	28/2110	29/021957	292100N	1321800W	C308Z	9999.9990	97.0	17.0	3.0
6	GORDYY	29/0806	29/091402	285000N	1320300W	C308Z	9999.9990	52.0	22.0	1.0
7	RAZUMN	29/0743	29/110809	290000N	1312900W	C308Z	9999.9990	68.0	3.0	2.0
8	GORDYY	29/0017	29/003855	285600N	1325100W	C308Z	9999.9990	54.0	17.0	2.0

NOTE: VALUES IN BRACKETS ARE DUPLICATE CONTACT REPORTS.

SAMPLE SIZE 1393 [284] IGNORED 21 [6] EARLY 2 [0]

INCLUDING DUPLICATE CONTACTS:		WITHOUT DUPLICATE CONTACTS: 1109	
MEAN	00/00:49:52	MEAN	00/00:38:28
MEDIAN	00/00:20:06	MEDIAN	00/00:12:36
STANDARD DEVIATION	00/01:22:32	STANDARD DEVIATION	00/01:14:29

NUMBER OF UNIQUE NAME IDENTIFIERS: 139

NOTE: VALUES IN PARENS ARE REPORTS OMITTED FROM SAMPLE SIZE

ELINT DATA TIMELINESS

TOTAL ELINT REPORTS 287 [44] VALID 283 [41] IGNORED 4 [3] EARLY 0 [0]

INCLUDING DUPLICATE CONTACTS: 283		WITHOUT DUPLICATE CONTACTS: 0	
MEAN	00/01:05:18	MEAN	00/00:59:21
MEDIAN	00/00:37:23	MEDIAN	00/00:35:16
STANDARD DEVIATION	00/01:18:00	STANDARD DEVIATION	00/01:11:34

ELINT DATA STATISTICS

COUNT	ELINT	TOTAL	VALID	IGNORED	EARLY
1	C308Z	24 [1]	24 [1]		
2	C311A	2	2		

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- HISTORY
- ELNTRPT
- **SPECRPT**
- STATS
- TTYPARSE
- MSGANAL

ELINT SPECIAL EXE

C:\PROGRA~1\Repeat\Classic\specrpt.exe

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RDB

F1=HELP ESC=NoValue

SPECRPT - Version 2003

* * * DOD CONTROLLED SOFTWARE * * *

* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The SPECIAL REPORT program calculates timeliness statistics for each elint notation found in a contact database file. Correct file inputs will be REPEAT Data Base files (usually .RDB). Results files will have the same name as the input file but an extension of .RPS. Multiple files can be selected. The program may also be executed from the command line. Type 'SPECRPT ?' from the DOS prompt for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

ELINT SPECIAL RESULTS

TESTA.RPS - Notepad

File Edit Format Help

```
CNT   NAME(* IRC)     TOE       RCVD      TRACK   ELNOT   LAT      LONG     FL TYP SENSOR
----  ------------ -------  --------- ------  -----  -------  -------- -- --- ------
   1  GORDYY       29/0017  29/003855 T7263   C308Z 285600N 1325100W UR  NAV
   2  RAZUMNYY     28/2337  29/010047 T7313   C308Z 285500N 1322800W UR  NAV
   3  GORDYY       28/2337  29/010047 T7263   C308Z 285300N 1320800W UR  NAV
   4  DZERZHINSKIY 29/0041  29/012952 T7403   C308Z 321200N 1173000W UR  NAV
   5-GORDYY        29/0017--29/013422 T7263   C308Z 285600N-1325100W UR  NAV
   6  GORDYY       28/2323  29/013422 T7263   C308Z 285500N 1330900W UR  NAV
   7  GORDYY       29/0133  29/020225 T7263   C308Z 285300N 1324800W UR  NAV
   8  DZERZHINSKIY 29/0121  29/021957 T7403   C308Z 321400N 1173100W UR  NAV
   9  RAZUMNYY     28/2110  29/021957 T7313   C308Z 292100N 1321800W UR  NAV
  10  GORDYY       29/0806  29/091402 T7263   C308Z 285000N 1320300W UR  NAV
  11  RAZUMNYY     29/0743  29/110809 T7313   C308Z 290000N 1312900W UR  NAV
  12  RAZUMNYY     29/1125  29/120020 T7313   C308Z 285700N 1310700W UR  NAV
  13  RAZUMNYY     29/1358  29/141951 T7313   C308Z 290200N 1310500W UR  NAV
  14  GORDYY       29/1346  29/142441 T7263   C308Z 290000N 1314000W UR  NAV
  15  GORDYY       29/1402  29/142441 T7263   C308Z 285900N 1312900W UR  NAV
  16  REZKIY       29/1346  29/143646 T7432   C308Z 302400N 1280400W UR  NAV
  17  GORDYY       29/1735  29/182133 T7263   C308Z 292200N 1310300W UR  NAV
  18  RAZUMNYY     29/1739  29/184324 T7313   C308Z 293200N 1305900W UR  NAV
  19  RAZUMNYY     29/1913  29/194427 T7313   C308Z 294400N 1305300W UR  NAV
  20  RAZUMNYY     29/1841  29/202655 T7313   C308Z 293800N 1305900W UR  NAV
  21  RAZUMNYY     29/2026  29/205252 T7313   C308Z 294900N 1305500W UR  NAV
  22  REZKIY       29/2026  29/205252 T7432   C308Z 312700N 1280000W UR  NAV
  23  GORDYY       29/2026  29/205500 T7263   C308Z 293800N 1312600W UR  NAV
  24  REZKIY       29/2237  29/234645 T7432   C308Z 314900N 1275300W UR  NAV

Sample Size: 23  ELNOT: C308Z
       Mean: 00/01:10:03   Median: 00/00:48:52   Stan Dev: 00/01:07:33
   Including Duplicate Contacts: 24
       Mean: 00/01:10:22   Median: 00/00:50:46   Stan Dev: 00/01:06:05

  25 VLIYATELNYY  28/2300  29/020638 T7399  C311A 295200N 1260500W UR  NAV
  26 SMELYY       28/2219  29/022415 T7440  C311A 355800N 1215300W UR  NAV

Sample Size: 2  ELNOT: C311A
       Mean: 00/03:35:57   Median: 00/04:05:15   Stan Dev: 00/00:41:27

  27 TA NAV11     29/0043  29/013422 T7486  C315Z 335400N 1190700W UR  NAV
  28 GRISHA III   28/2248  29/023233 T7519  C315Z 384000N 1234700W UR      INTEL
  29-TA NAV11     29/0043--29/024116 T7486  C315Z 335400N-1190700W UR  NAV
  30-TA NAV11     29/0043--29/024116 T7486  C315Z 335400N-1190700W UR  NAV
  31-DZERZHINSKIY 29/0725--29/085015 T7403  C315Z 324500N-1174200W UR  NAV
```

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- HISTORY
- ELNTRPT
- SPECRPT
- **STATS**
- TTYPARSE
- MSGANAL

MSG STATS EXE

C:\PROGRA~1\Repeat\Classic\stats.exe

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RDB

F1=HELP ESC=NoValue

STATS - Version 2003

* * * DOD CONTROLLED SOFTWARE * * *

* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

The STATS program calculates statics about message data from an RDB file. It reports on message count and total contact reports in a file. It also counts occurances of the following line types: NARR/, ACK, NACK. PAIR, DEL, DPOS, MRG and others. Counts are also given by message format types. Type 'STATS ?' for command line instructions.

-- Hit <CTRL-C> to return to the DOS prompt. --

MSG STATS RESULTS

TESTA.STS - WordPad

File Edit View Insert Format Help

C:\PROGRA~1\REPEAT\CLASSIC\TESTA.RDB

	MESSAGES			
	ORIGINAL	DUPLICATE	INVALID	TOTAL
MESSAGE COUNT:	333	0	0	333
TOTAL REPORTS:	1541	0	0	1541
CONTACT REPORTS:	1416	0	0	1416
Original:	1126	0	0	1126
Duplicate:	290	0	0	290
Invalid:	0	0	0	0
OTHER REPORTS:	125	0	0	125
NARR/ Line:	0	0	0	0
ACK or NAK Line:	0	0	0	0
PAIR Line:	0	0	0	0
DEL Line:	49	0	0	49
DPOS Line:	69	0	0	69
MRG Line:	0	0	0	0
Others:	7	0	0	7

MSG TYPE	COUNT	ORIGINAL	DUPLICATE	INVALID
02 or 22	333	333	0	0

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- HISTORY
- ELNTRPT
- SPECRPT
- STATS
- **TTYPARSE**
- MSGANAL

TTY PARSE EXE

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\TTY PARSE.lnk

Select files to decode

C:\PROGRA~1\REPEAT\CLASSIC*.RAW_

F1=HELP ESC=NoValue

TTYPARSE - Version 2003

The TTYPARSE program provides statistical analysis for a teletype data file. The input files are raw REPEAT data files.

-- Hit <CTRL-C> to return to the DOS prompt. --

TTY RAW DATA

REPEAT Windows Editor - [C:\WORK\HALIFAX\halifax data\9992.tty]

File Edit Find Format Tools Data Window Help

```
5 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467556 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467557 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467558 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467559 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467560 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467561 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467562 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467563 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467564 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467565 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2351
DL MSN 02467566 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2352
DL MSN 01257516         DUPE
DL MSN 01257517         DUPE
←↕←◀P
OTCIXS TIME 2353
DL MSN 02347137 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2353
DL MSN 01227497 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2354
DL MSN 00147030 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2354
DL MSN 01257516         DUPE
DL MSN 01257517         DUPE
←↕←◀P
OTCIXS TIME 2354
DL MSN 01257518 XFERRED TO TDP←↕←◀P
OTCIXS TIME 2354
DL MSN 01257519 XFERRED TO TDP←↕←◀P
```

Msg Start Time = 32/23:51:21 | Msg End Time = 33/12:55:14 | Msg 2 of 3 | Msg Size = 101000

C:\WORK\HALIFAX\halifax data\9992.tty

TTY PARSE RESULTS

999.TTP - WordPad

File Edit View Insert Format Help

```
33/16:53:05.20 DL MSN 02347043 XFERRED TO TDP□□□□P
33/16:53:33.80 DL MSN 01257040 XFERRED TO TDP□□□□P
33/16:53:58.50 DL MSN 01237091 XFERRED TO TDP□□□□P
33/16:53:59.20 DL MSN 01237092 XFERRED TO TDP□□□□P
33/16:54:57.60 DL MSN 01587109 XFERRED TO TDP□□□□P
33/16:54:59.20 DL MSN 01587110 XFERRED TO TDP□□□□P
33/16:55:18.80 DL MSN 01227080 XFERRED TO TDP□□□□P
33/16:56:22.50 TDP ENTERED DL XMIT MSN 01727032/1065
33/16:56:34.20 NC RCVD DL MSN 01727032


TTY FILE STATISTICS

FILE START TIME: 32/08:56:35.50   END TIME: 33/16:56:34.40
TOTAL RECORD TIME 01/07:59:58.90

NET WENT DOWN 12 TIMES.
TOTAL DOWN TIME: 00/00:55:49.00

TIME TO CLEAR TRANSMIT BUFFER
   TOTAL TDP ENTERED LINES: 589
   TOTAL NC RCVD LINES: 568
   TOTAL MATCHES: 565
   TIME DELAY BASED ON THE 565 NC RCVD MATCHES
      MEAN                 00/00:21:20.50
      MEDIAN               00/00:01:05.50
      STANDARD DEVIATION   00/02:17:26.00
```

For Help, press F1 CAP

ANALYSIS PROGRAMS CONT

- MSGCOMP
- CONTCOMP
- REPORT
- HISTORY
- ELNTRPT
- SPECRPT
- STATS
- TTYPARSE
- **MSGANAL**

MSGANAL EXECUTION SCRN

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

MESSAGE ANALYSIS

Version 2003

* * * DOD CONTROLLED SOFTWARE * * *
* * * UNAUTHORIZED USE OR DISTRIBUTION PROHIBITED * * *

STATISTICS COMPUTED ON MESSAGE LENGTHS, INTER-MESSAGE TIME GAPS,
MESSAGE LATE FACTORS AND CONTACT LATE FACTORS.

DOES YOUR FILE CROSS INTO A NEW MONTH (Y/N)?

MSGANAL COMMANDS

- CONFIGURE
- SELECT OPTIONS
- SELECT SEARCH STRING
- SELECT OUPUT FORMATS
- EXECUTE
- DISPLAY RESULTS
- VIEWTDF
- HELP
- ABORT

MESANAL START

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

MESSAGE ANALYSIS

Version 2003

[F1] - Configure
[F2] - Select Options
[F3] - Select Search Strings
[F4] - Select Output Formats
[F5] - Execute
[F6] - Display Results
[F7] - View TDF
[F8] - Help
[F10] - Abort

MSGANAL CONFIGURE

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

CONFIG | COMMAND KEYS: Esc, Alt-h, Alt-d, Alt-t, Shft-f2

PATHNAME: C:\TEMP\
FILENAME: TESTA.STP FILETYPE: ASCII MAX CTLF: 00/12:00:00.0 MONTH: 1

	SOM	EOM		SOM	EOM
1)	ZNY		2)		
3)			4)		
5)			6)		
7)			8)		
9)			10)		
11)			12)		
13)			14)		
15)			16)		
17)			18)		
19)			20)		

ENTER EOM SEQUENCE:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

MSGANAL STAT OPTIONS

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

OPTIONS | COMMAND KEYS: Esc, Alt-h, Alt-d

STATISTICAL ANALYSIS OPTIONS

1) Mean Message Length	7) Mean Message DTG Late Factor
2) Median Message Length	8) Median Message DTG Late Factor
3) Std Dev of Message Length	9) Std Dev of Message DTG Late Factor
4) Mean Inter-Message Gap	10) Mean Contact Time Late Factor
5) Median Inter-Message Gap	11) Median Contact Time late Factor
6) Std Dev of Inter-Message Gap	12) Std Dev of Contact Time Late Factor
	13) Avg # of Strings/Time Interval Over a Given Time Range

OPTIONS SELECTED ARE HIGHLIGHTED ABOVE

SELECT OPTIONS:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

MSGANAL SEARCH

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

STRINGS | COMMAND KEYS: Esc, Alt-h, Alt-d, Alt-t, Alt-l, Alt-s, Shft-f2

SEARCH STRINGS SELECTED

FILE START: 29/00:00:00.0 FILE END: 29/23:43:00.7

	STRING	LOW RANGE	HIGH RANGE	INTERVAL
1)				
2)				
3)				
4)				
5)				
6)				
7)				
8)				

ENTER SEARCH STRING:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

MSGANAL OUTPUT

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

FORMATS | COMMAND KEYS: Esc, Alt-h, Alt-d

OUTPUT FORMATS

1) Results Display
2) Results File

OUTPUT FORMATS SELECTED ARE HIGHLIGHTED ABOVE

SELECT OUTPUT FORMATS:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

MSGANAL RESULTS

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

RESULTS | COMMAND KEYS: Esc, Alt-h, Alt-d, Alt-t, Alt-p

RESULTS DISPLAY (page 1 of 4)
333 messages from 29/00:00:00.0 to 29/23:43:00.70

Message Length		Message DTG Late Factor		
Mean	807.889 characters	Mean	00/00:00:00.9	333 msg dtgs
Median	695.000 characters	Median	00/00:00:00.0	2 late
Std Dev	444.693 characters	Std Dev	00/00:00:13.5	331 on time
				0 early
Inter-Message Gap		**Contact Time Late Factor**		
Mean	00/00:04:16.4	Mean	00/00:50:11.9	1375 contacts
Median	00/00:02:59.5	Median	00/00:18:00.0	1115 late
Std Dev	00/00:13:10.8	Std Dev	00/01:26:18.3	129 on time
				111 early
				20 ignored

ENTER COMMAND KEY:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

MSGANAL GRAPHS

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

MESSAGE LENGTHS		INTER-MESSAGE GAP		DIG LATE FACTORS		CONTACT LATE FACTORS	
FIELD	LENGTH	FIELD	TIME	FIELD	TIME	FIELD	TIME
1	150	1	000045	1	000100	1	001500
2	300	2	000130	2	000200	2	003000
3	450	3	000215	3	000300	3	004500
4	600	4	000300	4	000400	4	010000
5	750	5	000345	5	000500	5	011500
6	900	6	000430	6	000600	6	013000
7	1050	7	000515	7	000700	7	014500
8	1200	8	000600	8	000800	8	020000
9	1350	9	000645	9	000900	9	021500
10 >	1350	10	>000645	10	>000900	10	>021500

COMMANDS:
SR - SAVE RESULTS SD - SAVE DISPLAY INPUTS LD - LOAD DISPLAY INPUTS
PGDN - DISPLAY GRAPH DN ARROW - ADJUST RANGE SETTINGS
SELECT GRAPH OUTPUT:

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON CONFIGURATION

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F1] - CONFIGURATION
Position cursor and press [CR] for more detail.

Function Description - Select pathname, filename, filetype, max contact time late factor, start and optional end of message sequences.

Pathname - DOS pathname defining directory location of files.
Filename - Transmittable data file to be analyzed.
Filetype - Type of character encoding.
Max Contact Time Late Factor - Maximum value for contact time late factors to be included in statistics generation.
Start of Message Sequence - Up to twenty sequences of printable or non-printable characters designating the start of a message.
End of Message Sequence - Up to twenty sequences of printable or non-printable characters designating the end of a message.
Config Command Keys - Move cursor, execute "next" function, local help.
Main Functions - Return to main functions screen.

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON STAT OPTIONS

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F2] - OPTIONS SELECTION
Position cursor and press [CR] for more detail.

Function Description - Select which of the possible 13 statistical options to analyze the selected transmittable data file.

Statistical Measurements - Mean, Median, and Standard Deviation.

Applications for Analysis - Message Length, Inter-Message Gap, Message DTG Late Factor, Contact Time Late Factor, String

Options Entry Syntax - Description of proper options entry syntax.

Options Command Keys - Execute "next" function, local help.

Main Functions - Return to main functions screen.

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON STRING SEARCH

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F3] - SEARCH STRINGS SELECTION
Position cursor and press [CR] for more detail.

Function Description - Select up to 16 search strings and associated low ranges, high ranges, and time intervals over which to conduct the search.

Search String - Sequence of up to 16 characters including wildcard desgnators (* and #).
Low Range - Time at which to begin search for associated string.
High Range - Time at which to end search for associated string.
Time Interval - Size of time slots over which to compute the average number of associated strings found within the associated range.
String Command Keys - Move cursor, LSL, MSL, execute "next" function, local help.
Main Functions - Return to main functions screen.

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON TYPE OUTPUT

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F4] - OUTPUT FORMATS SELECTION
Position cursor and press [CR] for more detail.

Function Description - Select which of the possible three formats the program will output the results of its analysis to.

Results Display - Display results of most recent Message Analysis execution.
Results File - Dump the results of analysis for selected applications for statistical analysis to a disk file.
Graphics - Not implemented at the time of this release.
Format Command Keys - Execute "next" function, local help.
Main Functions - Return to main functions screen.

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON EXEUCTION DISPLAY

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F5] - EXECUTION
Position cursor and press [CR] for more detail.

Function Description - Executes the analysis of the file specified in configuration based on the options and search strings selected, and outputs the results according to the formats selected.

Execution Display - Displays the status of program execution.

Main Functions - Return to main functions screen.

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON RESULTS DISPLAY

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

[F6] - RESULTS DISPLAY
Position cursor and press [CR] for more detail.

Function Description - Displays the results of the most recent Message Analysis execution.

Results Display Page 1 - Results of analysis of selected applications of statistical measurement.
Results Display Page 2 - Results of multiple-string search from start to end of file.
Results Display Page 3, 4 - Results of multiple string search from start to end of time range over time interval.
Results Display Command Keys - [Page Up, Down] and [Alt-P].

Main Functions

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

HELP ON VIEWTDF

C:\Documents and Settings\All Users\Desktop\Repeat\Classic\MSG ANALYSIS.lnk

HELP | LOCAL COMMANDS:

VIEW TDF

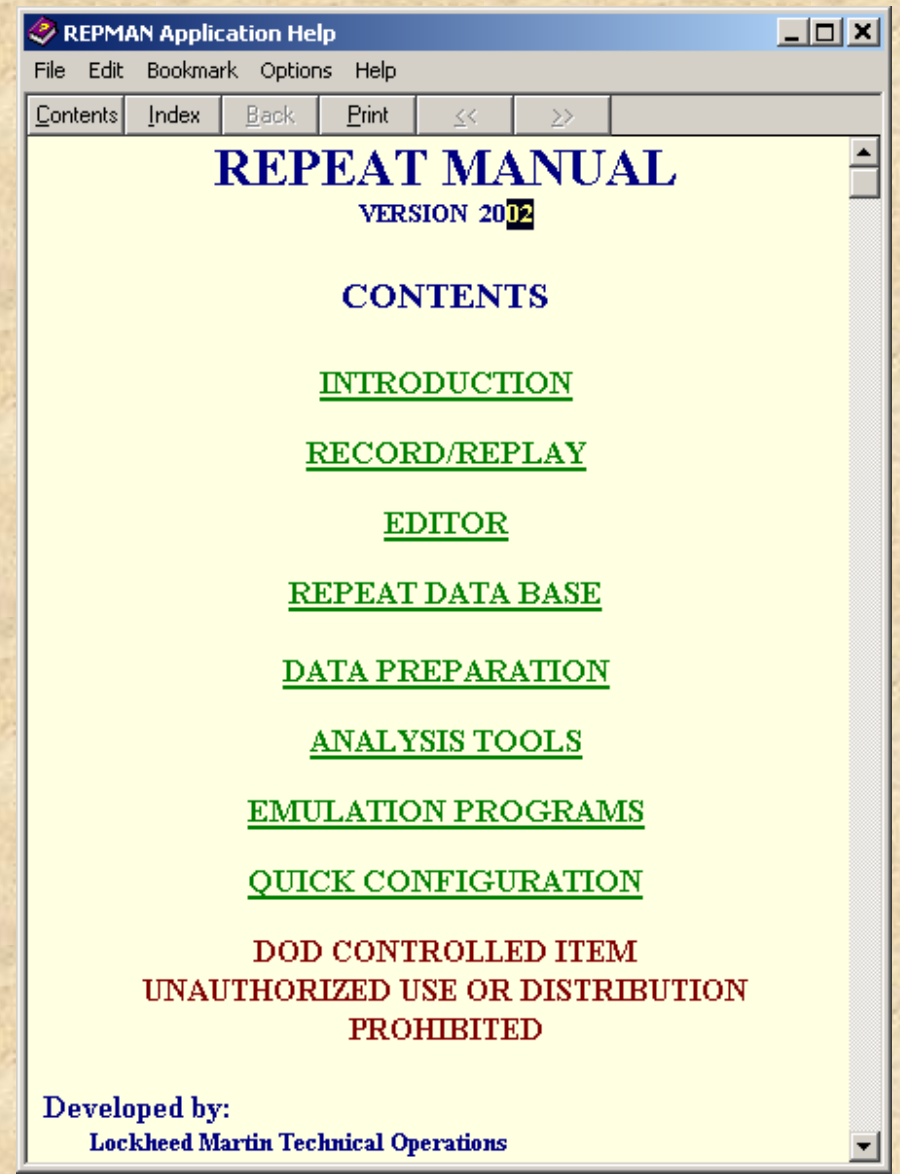
Invocation - [F7]

Viewtdf allows you to look at the file being analyzed with the time stamp for the start of each line displayed along the left side.

Main Functions

[F1] Config, [F2] Options, [F3] Strings, [F4] Formats, [F5] Execute,
[F6] Results, [F7] Viewtdf, [F8] Help, [F9] Graph, [F10] Abort

REPMAN HELP FOR DOS PROGRAMS



REPMAN HELP FOR DOS PROGRAMS EXAMPLE